

Appl. No. 10/608,357
Amdt. E dated November 18, 2008
Reply to O.A. of September 5, 2008

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PATENT
Docket No. J-3866

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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) An article of manufacture comprising:
a housing;
a fan mounted to the housing to generate an air stream;
between about 10 ml and about 15 ml of a volatile liquid carried within an enclosed reservoir,
the volatile liquid having an evaporation rate between about 5.0×10^{-9} ~~to~~ and about 10.0×10^{-8}
~~(m^3/m^2)/s~~ meters per second measured with about 30% of the volatile liquid remaining at room
temperature, as measured and calculated by drop shape analysis; and
a wick extending between the volatile liquid and the air stream;
wherein about 90% of the volatile liquid is capable of evaporating through the wick between
within one and two months under ambient conditions when the wick is exposed to the surrounding
environment.
2. (Currently Amended) The article of manufacture of claim 1, wherein the evaporation rate
is between about 1.0×10^{-8} and about 7.0×10^{-8} ~~(m^3/m^2)/s~~ meters per second measured with about
30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape
analysis.
3. (Previously Presented) The article of manufacture of claim 1, wherein the volatile liquid
has a relative evaporation rate of between about 0.50 and about 4.0.
4. (Previously Presented) The article of manufacture of claim 1, wherein the fan exhibits a
throughput of about 0.4 cubic feet per minute to about 0.45 cubic feet per minute.
5. (Previously Presented) The article of manufacture of claim 1, wherein the air stream is
intermittent.

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6. (Previously Presented) The article of manufacture of claim 5, wherein the air stream is on and off in a ratio of about 1 minute to 3 minutes.

7. (Previously Presented) The article of manufacture of claim 1, wherein the volatile liquid comprises a fragrance.

8. (Previously Presented) The article of manufacture of claim 1, wherein the volatile liquid comprises an insecticide.

9. (Previously Presented) The article of manufacture of claim 1, wherein the volatile liquid is contained within a container that is adapted to be releasably secured to the housing.

10. (Previously Presented) The article of manufacture of claim 1, wherein about 90% of the volatile liquid evaporates in about 2 months under ambient conditions.

11. (Previously Presented) The article of manufacture of claim 1, wherein the wick is in alignment with the fan to immerse the wick into the air stream.

12. (Previously Presented) The article of manufacture of claim 11, wherein the wick has a mean pore size between about 1 micron and about 10 microns.

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13. (Currently Amended) An article of manufacture comprising:
a housing;
a porous wick associated with the housing; and
a preselected volume of volatile liquid enclosed within a reservoir, the volatile liquid having an evaporation rate between about 5.0×10^{-9} to about 10.0×10^{-8} ~~(m³/m²)/s~~ meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis, wherein the wick is in fluid communication with the volatile liquid and the surrounding environment, and wherein at least 90% of the volatile liquid evaporates within 2 months under ambient conditions when the wick is exposed to the surrounding environment.

14. (Currently Amended) The article of manufacture of claim 13, wherein the evaporation rate is between about 1.0×10^{-8} and about 7.0×10^{-8} ~~(m³/m²)/s~~ meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis.

15. (Previously Presented) The article of manufacture of claim 13, wherein the volatile liquid has a relative evaporation rate between about 0.50 and about 4.0.

16. (Previously Presented) The article of manufacture of claim 13, further comprising a fan for generating an air stream.

17. (Previously Presented) The article of manufacture of claim 13, wherein the fan exhibits a throughput of about 0.4 cubic feet per minute to about 0.45 cubic feet per minute.

18. (Previously Presented) The article of manufacture of claim 13, wherein the air stream is intermittent.

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19. (Previously Presented) The article of manufacture of claim 13, wherein the air stream is on and off in a ratio of about 1 minute to 3 minutes.

20. (Previously Presented) The article of manufacture of claim 13, wherein the volatile liquid comprises a fragrance.

21. (Previously Presented) The article of manufacture of claim 13, wherein the volatile liquid comprises an insecticide.

22. (Previously Presented) The article of manufacture of claim 13, wherein the volatile liquid is contained within a container that is releasably secured to the housing.

23. (Previously Presented) The article of manufacture of claim 13, wherein the preselected volume of volatile liquid is between about 10 ml and about 15 ml.

24. (Previously Presented) The article of manufacture of claim 13, wherein the wick has a mean pore size between about 1 and about 10 microns.

25. (Previously Presented) An article of manufacture in combination with a dispenser comprising:

a container comprising an aperture;

a preselected amount of volatile liquid carried within the container, the volatile liquid having an evaporation rate between about 5.0×10^{-9} to about 10.0×10^{-8} meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis; and

an ultra high molecular weight high density polyethylene wick disposed in the aperture so as to minimize spillage of the volatile liquid from within the container, wherein the wick is in fluid communication with the volatile liquid and the surrounding environment;

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wherein the container is insertable into the dispenser including a housing and a fan mounted to the housing to generate an air stream; and

wherein about 90% of the volatile liquid evaporates to the surrounding environment through the wick within two months under ambient conditions.

26. (Previously Presented) The combination of claim 25, wherein the evaporation rate is between about 1.0×10^{-8} and about 7.0×10^{-8} meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis.

27. (Previously Presented) The combination of claim 25, wherein the volatile liquid has a relative evaporation rate of between about 0.50 and about 4.0.

28. (Previously Presented) The combination of claim 25, wherein the fan exhibits a throughput of about 0.4 cubic feet per minute to about 0.45 cubic feet per minute.

29. (Previously Presented) The combination of claim 25, wherein the air stream is intermittent.

30. (Previously Presented) The combination of claim 25, wherein the air stream is on and off in a ratio of about 1 minute to 3 minutes.

31. (Previously Presented) The combination of claim 25, wherein the volatile liquid comprises a fragrance.

32. (Previously Presented) The combination of claim 25, wherein the volatile liquid comprises an insecticide.

33. (Previously Presented) The refill of claim 25, wherein the container is adapted to be releasably secured to the housing.

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34. (Previously Presented) The combination of claim 25, wherein the preselected volume of volatile liquid is between about 10 ml and about 15 ml.

35. (Previously Presented) The combination of claim 25, wherein the wick is in alignment with the fan to immerse the wick into the air stream.

36. (Previously Presented) The combination of claim 35, wherein the wick has a mean pore size between about 1 micron and about 10 microns.

37. (Currently Amended) An article of manufacture in combination with a dispenser comprising:

a container and a volatile liquid carried by the container, the volatile liquid having an evaporation rate between about 5.0×10^{-9} to about 10.0×10^{-8} ~~(m³/m²)/s~~ meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis; and

wherein the container is insertable into the dispenser including a housing and a porous wick associated with the housing; and

wherein the volatile liquid has a relative evaporation rate between about 0.50 and about 4.0.

38. (Currently Amended) The combination of claim 37, wherein the evaporation rate is between about 1.0×10^{-8} and about 7.0×10^{-8} ~~(m³/m²)/s~~ meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis.

39. (canceled)

40. (Previously Presented) The combination of claim 37, further comprising a fan for generating an air stream.

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41. (Previously Presented) The combination of claim 37, wherein the fan exhibits a throughput of about 0.4 cubic feet per minute to about 0.45 cubic feet per minute.

42. (Previously Presented) The combination of claim 37, wherein the air stream is intermittent.

43. (Previously Presented) The combination of claim 37, wherein the air stream is on and off in a ratio of about 1 minute to 3 minutes.

44. (Previously Presented) The combination of claim 37, wherein the volatile liquid comprises a fragrance.

45. (Previously Presented) The combination of claim 37, wherein the volatile liquid comprises an insecticide.

46. (Previously Presented) The combination of claim 37, wherein the volatile liquid is contained within a container capable of being releasably secured to the housing.

47. (Previously Presented) The combination of claim 37, wherein at least 90% of the volatile liquid is capable of evaporating within 2 months under ambient conditions.

48. (Previously Presented) The combination of claim 37, wherein the wick has a mean pore size between about 1 and about 10 microns.